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(12) **Patent Application:**

(11) **CA 2100050**

(54) **REARVIEW MIRROR**

(54) **RETROVISEUR**

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ABSTRACT:

Abstract
 Invention Patent "IMPROVEMENT IN REARVIEW MIRROR" consisting
 in a mirror 1, assembled on a structure or frame 2 with a base 3 that can be
 adjusted on the car body, the present improvement consisting in providing
 mirror 1 with a demister composed by a polymeric semiconductor based on

lampblack with silver ink electric conductive tracks and placed on the back side 14 of the mirror.

CLAIMS: [Show all claims](#)

*** Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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(51) INTL.CL.⁵ H05B-003/84

(19) (CA) APPLICATION FOR CANADIAN PATENT (12)

(54) Rearview Mirror

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(57) 3 Claims

Notice: This application is as filed and may therefore contain an
incomplete specification.

Canada

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2100050

**INVENTION PATENT DESCRIPTIVE REPORT
"IMPROVEMENT IN REARVIEW MIRROR"**

The present patent has as subject a rearview mirror, belonging to the field of accessories for motorcars and which was improved to provide a better utilization and efficiency, in particular during cold days and/or fog and/or similar days.

Rearview mirrors for cars are already known, consisting essentially in a mirror plate, mounted so that it can be adjusted or not in a structure or frame, which is mounted so that it can be adjusted or not on its base, which is placed, in the case of an external rearview mirror, on the sides of the car body and, in the case of internal rearview mirror, in the region of the ceiling close to the medium point of the windscreen.

In spite of the efficiency of said rearview mirrors for the purposes to which they are intended, they have an inconvenience, in particular during cold and/or days with high level of humidity and/or mist and/or other similar days, when the day becomes misty, which sensibly diminishes the visibility provided by said mirrors, thus harming the performance of the rearview mirror, in particular when it is of the external type.

In view of this problem and with the purpose of overcome it, an improvement was developed in the rearview mirror, subject of the present patent, which consists in providing its mirror plate with a demister consisting in a self-controlled heater mounted on the back part of the mirror and of the type obtained with a polymeric semiconductor based on lampblack with silver ink electric conductive track, which is subject of another application of patent from the same applicant.

The high efficiency of the demister with said features properly solves the problem above mentioned, without interfering in the best efficiency or making the rearview mirror too dear.

Another significant aspect in the use of the present demister consists in the fact that it is easy to incorporate to the rearview mirror, and that it does not entail great modifications at the assembly line.

The attached drawing shows, just as illustration and not as a restriction, a rearview mirror built according to the improvement, subject of the present patent in which:

Figure 1 shows an exploded view scheme of the mirror; and

Figure 2 shows the mirror assembled and the way it is used.

According to what is shown in the figures above mentioned, the improvement in the rearview mirror, subject of the present patent, applies to rearview mirrors, in particular external ones, of motorcars and consists essentially of a mirror plate 1, mounted in a way that can be adjusted or not in a support structure or frame 2, mounted so that it can be adjusted on a base 3 which is fixed on the body of the car.

The improvement of the rearview mirror with said features consists in providing the mirror plate itself 1 with a demister 4 consisting in a self-controlled heater, obtained with a polymeric semiconductor based on lampblack with silver printed electric conductive tracks, which was a subject of another application for patent of the same applicant.

The above mentioned self-controlled heater, obtained from the polymeric semiconductor based on lampblack with silver printed electric conductive tracks consists essentially in a substract of semiconductor polymer based on lampblack 5, composed by low density polyethylene (PEBD) 60%; acetate ethilene copolymer 8.5%; conductive lampblack with selected porous structure 20%; spreading agent consisting of Calcium Stearate 4.0%; anti-oxidant 3.0%, and Calcium Titanate coupling agent 0.5% with lampblack having a high degree of shearing and low degree of direction; substract 5 being printed with a silver ink track 6 consisting of bands building the negative 7 and positive 8 poles linked to the corresponding contacts 9 and conveniently drawn as interpenetrating and adjacent parts 10 and 11, which limit among them intervals 12 of the substract with no printing; these and said interpenetrating and adjacent parts 10 and 11 are conveniently dimensioned to provide the proper heat dissipation to the mirror area itself 1 which is to be demisted.

It is further part of the demister means of fixation to the mirror consisting preferably of a suitable adhesive layer 13 which cannot be affected by heat, laid on the electric conductive track 6 and intended to stick the heater on the back face 14 of the mirror plate 1.

Naturally, the demister with said characteristics has configuration, dimensions and heat dissipation capacity which vary and are suitable to meet different configurations and dimensions of mirrors.

Claims

- 1) "IMPROVEMENT IN REARVIEW MIRROR" consisting of a mirror plate itself (1), assembled so that it can be adjusted or not in a support structure or frame (2), assembled so that it can be adjusted on a base (3) to be fixed on the external or internal region of a car body, characterized by the fact that it provides the mirror plate itself (1) with a demister (4) consisting of a self-controlled heater, obtained from polymeric semiconductor based on lampblack with electric conductive tracks (6) printed with silver ink.
- 2) "IMPROVEMENT IN REARVIEW MIRROR" pursuant to claim 1, characterized by the fact that the self-controlled heater, obtained from polymeric semiconductor based on lampblack with silver ink printed electric conductive tracks consists essentially in one semiconductor polymer substract based on lampblack (5), composed by low density polyethilene (PEBD) 60%; acetate ethylene copolymer 8.5%; conductive lampblack with selected porous structure 20%; spreading agent consisting of Calcium Stearate 4.0%; anti-oxidant 3.0%, and Calcium Titanate coupling agent 0.5% with lampblack having a high degree of shearing and low degree of direction, this substract (5) to be printed with a silver ink track (6) consisting of bands which form the negative (7) and positive (8) poles linked to the corresponding contacts (9) and conveniently drawn with interpenetrating and adjacent parts (10) and (11), which limit among them intervals 12 of the substract with no printing; these and the above referred interpenetrating and adjacent parts (10) and (11) are conveniently dimensioned in order to provide the proper heat dissipation to the mirror area itself (1) to the demisted, and being also provided means of fixation of the heater to the mirror.
- 3) "IMPROVEMENT IN REARVIEW MIRROR" pursuant to Claim 2 characterized by the fact that the means of fixation of the heater to the mirror consists in a layer of suitable adhesive (13) which cannot be affected by heat, laid on the electric conductive track (6) and which adheres on the back face (14) of the mirror plate (1).

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Abstract

Invention Patent "IMPROVEMENT IN REARVIEW MIRROR" consisting in a mirror 1, assembled on a structure or frame 2 with a base 3 that can be adjusted on the car body, the present improvement consisting in providing mirror 1 with a demister composed by a polymeric semiconductor based on lampblack with silver ink electric conductive tracks and placed on the back side 14 of the mirror.

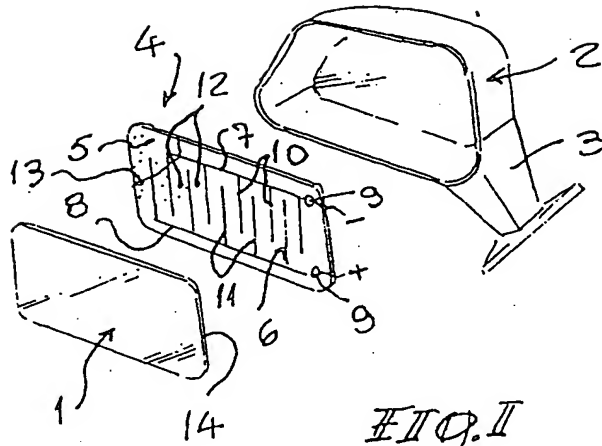


FIG. I

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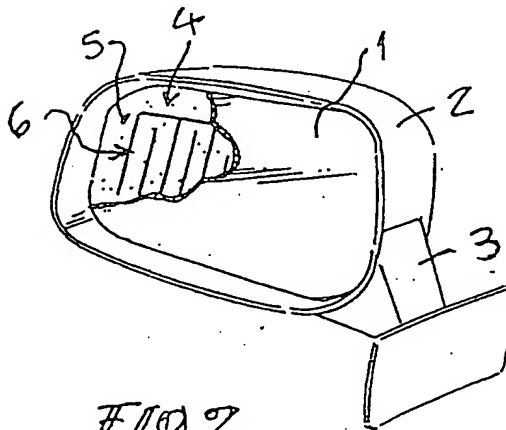


FIG. 2

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